

SUBJECT : Maximum/Minimum Temperature System Display upgrade, C450-1 and C450-7 to C451-N1

PURPOSE : Authorize use of the C451-N1 as a replacement for the C450-1 or C450-7

EQUIPMENT AFFECTED : C450-1, C450-7

PARTS REQUIRED : NONE

MOD PROCUREMENT : NONE

EFFECTIVITY: C450-1, C450-7

SPECIAL TOOLS REQUIRED : None

TIME REQUIRED : 0.0 hours.

EFFECT ON OTHER INSTRUCTIONS : None

CERTIFICATION STATEMENT: The C451-N1 is certified for NWS use by acceptance of the TRB of <date>, signed by <authorizing official>

GENERAL

The Cooperative Program (CO-OP) Max / Min Temperature System (MMTS) display, Agency Stock Number (ASN) C450-1 and C450-7, are no longer practical to repair if the microprocessor needs replacement. Once the existing stock of C450-1's and C450-7's are depleted, all orders for MMTS display units will be filled with C451-N1 units.

PROCEDURE

The units are interchangeable, except as noted below.

Installation:

No change in procedure. The C451-N1 is completely installation compatible with the C450-1 & C450-7. No site modifications are required to swap a C451-N1 with a C450-1 or C450-7. For new installations, follow the previously published instructions for the C450-1, see <instruction reference>.

Measurement capability:

No difference - all three units provide the same functions.

Operation :

Operator controls

- The C451-N1 uses 2 buttons for Max/Min recall and reset, vs three of the C450 units.
- **ARECALL@** button, when pressed the unit will toggle between the Max and the Min readings.
- **ACLEAR@** button. press and hold until "E2E2" is displayed (about 6 seconds). This resets the Max and Min readings to the current temperature.
- **NOTE!** The **MEMORY@** switch should be in the OFF position at all times. The memory functions are not used with the Max/Min since last reset mode of operation.

AC Power outage response - Different, explanation follows:

- The C451-N1 operates on either AC or battery. Only the display backlighting is disabled when operating on battery. The unit will operate for more than 4 weeks on battery power alone, providing ample time for data recording and power restoration. The unit uses an Alkaline 9 volt battery, that should be replaced each year at a minimum

Repair/Return Practice:

Please instruct all field personnel to return defective C450-1's and C450-7's MMTS units to the National Reconditioning Center for possible repair. These units are needed to maintain enough stock to support the return rate. We will not be excessing C450-1's, or ordering new C450-7's. A MMTS must be returned to NRC in order to receive a replacement, as this item is a repairable.

REPORTING MODIFICATION

The C451-N1 is a mandatory reportable piece of equipment. Site identification and usage tracking are required to support data continuity studies for Climatological purposes.